

**FIG. 1**

$\begin{smallmatrix} a \\ b \end{smallmatrix}$	⊙	○	△	?	×
⊙	⊙	⊙	⊙	⊙	⊙
○	○	○	○	○	?
△	⊙	○	○	△	×
?	⊙	○	△	?	×
×	⊙	?	×	×	×

a : TRUST LEVEL OF INDIVIDUAL A  
b : TRUST LEVEL OF INDIVIDUAL B

**FIG. 2**

$\begin{smallmatrix} c \\ d \end{smallmatrix}$	⊙	○	△	?	×
⊙	⊙	○	△	?	×
○	○	○	△	?	×
△	△	△	△	?	×
?	?	?	?	?	?
×	×	×	×	?	?

c : TRUST LEVEL IN TRUST BODY  
d : TRUST LEVEL OF THE TRUST BODY  
IN ANOTHER TRUST BODY

FIG. 3

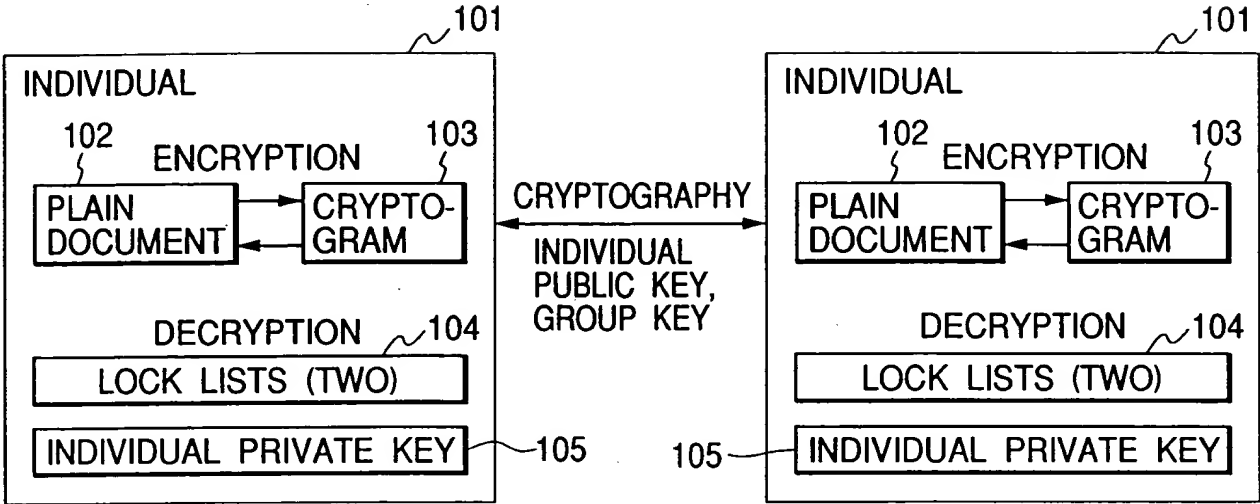


FIG. 4

LG		V	F
Pg	Cg (Sg)	Pu	Cu (Su)
LM1	PM1 (CG)	LU1	PU1 (CU)
LM2	PM2 (CG)	LU2	PU2 (CU)
LM3	PM3 (CG)	LU3	PU3 (CU)
⋮	⋮	⋮	⋮
LMn	PMn (CG)	LU <sub>n</sub>	PU <sub>n</sub> (CU)
Sig (Su)			
Sig (Su')			

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**FIG. 5**

LG1	G1	LI1	I1
LG2	G2	LI2	I2
LG3	G3	LI3	I3
⋮	⋮	⋮	⋮
LGi	Gi	LIi	Ii
⋮	⋮	⋮	⋮
LGn	Gn	LI n	I n

$G_i$  : TRUSTED GROUP LOCK  
 $L_{G_i}$  : LABEL OF GROUP LOCK  $G_i$   
 $I_i$  : TRUSTED INDIVIDUAL PUBLIC KEY  
 $L_{I_i}$  : LABEL CORRESPONDING TO  
INDIVIDUAL PUBLIC KEY  $I_i$

**FIG. 6**

LG1	G1
LG2	G2
LG3	G3
⋮	⋮
LG <sub>i</sub>	G <sub>i</sub>
⋮	⋮
LG <sub>n</sub>	G <sub>n</sub>

Gi : GROUP LOCK USED BY PRIVATE KEY  
Lgi : LABEL OF GROUP LOCK Gi

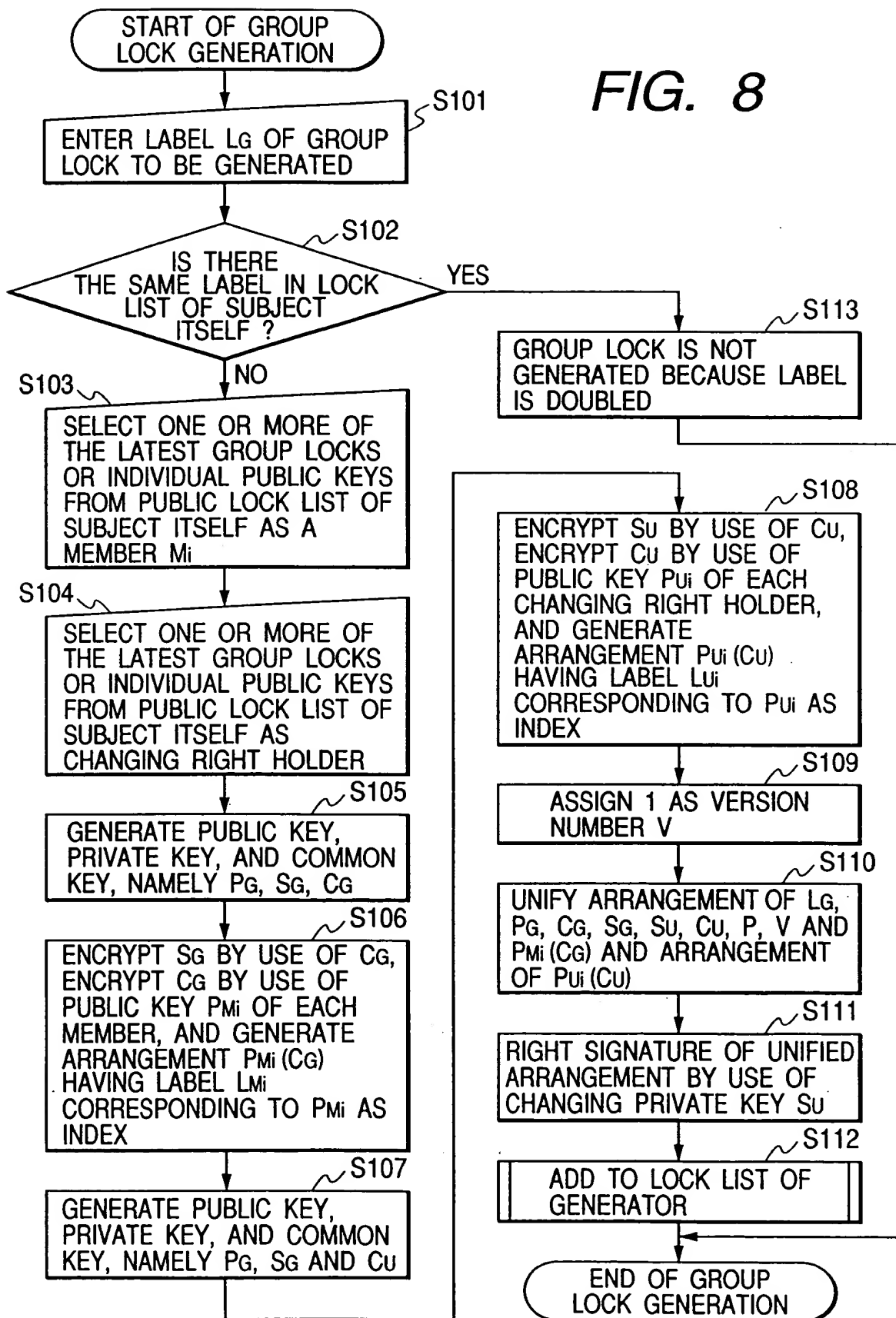
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**FIG. 7**

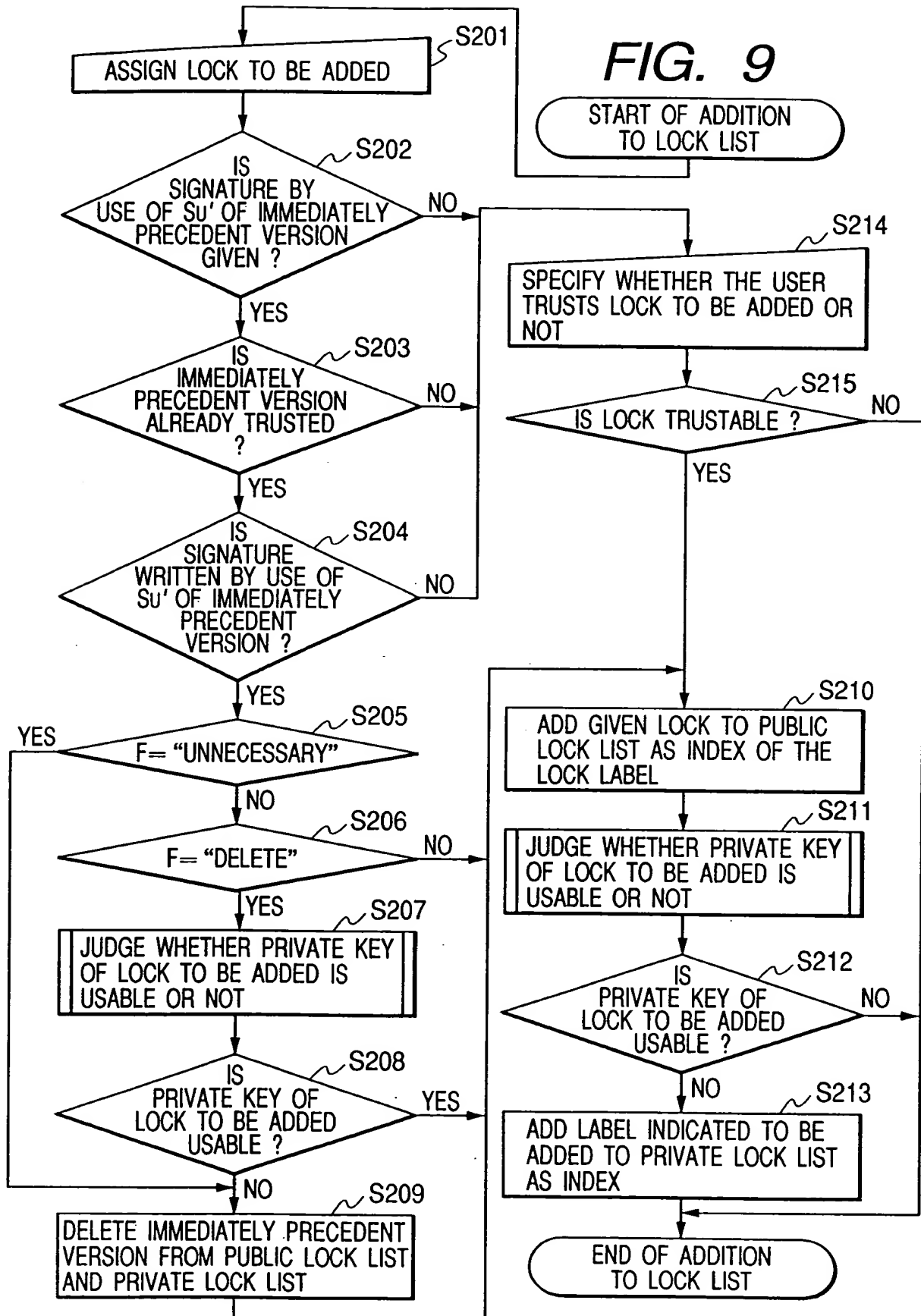
L1	P1 (K)
L2	P2 (K)
L3	P3 (K)
⋮	⋮
Li	Pi (K)
⋮	⋮
Ln	Pn (K)
K (D)	
P	Sig (S)

FIG. 8



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**FIG. 9**



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**FIG. 10**

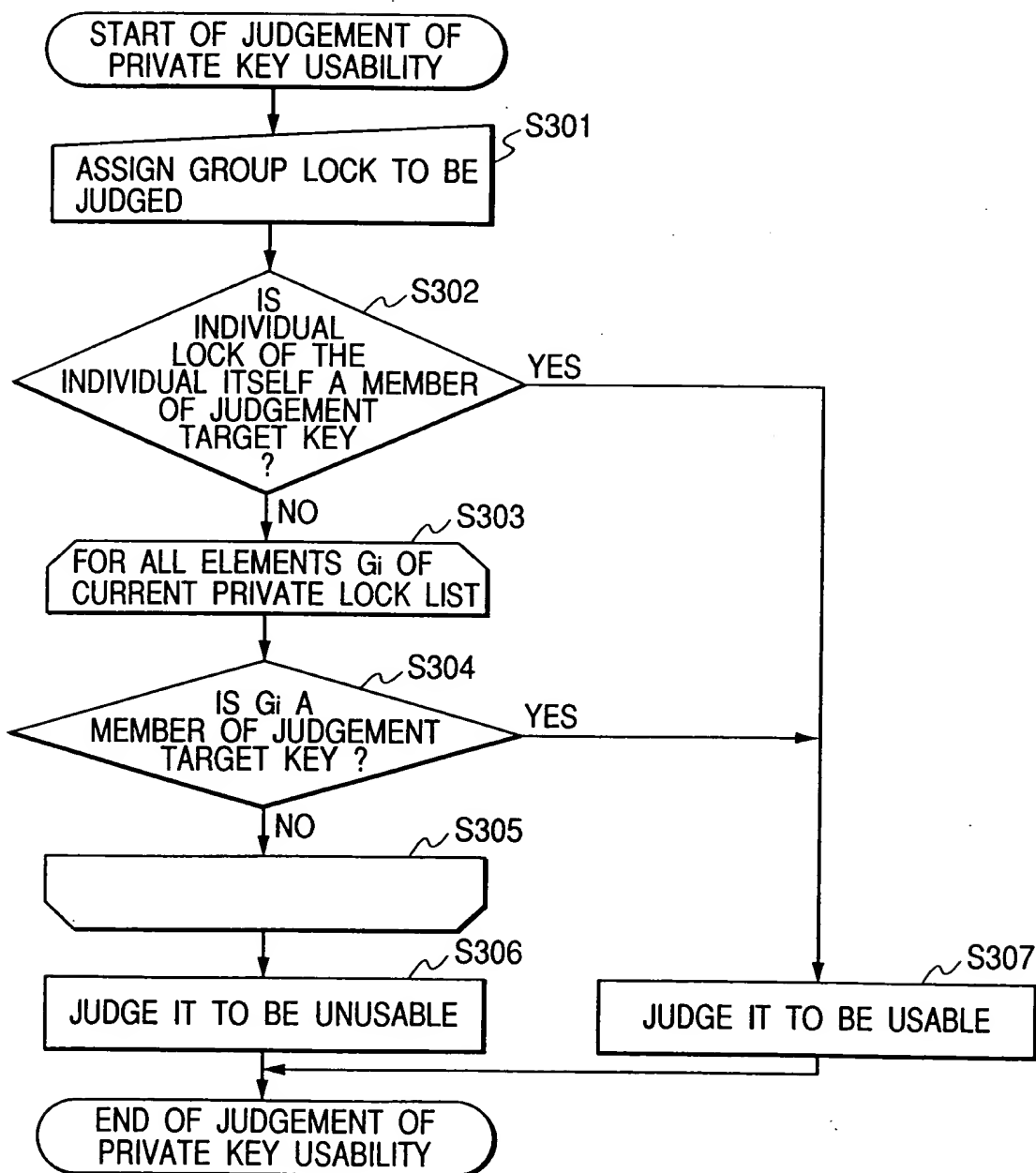
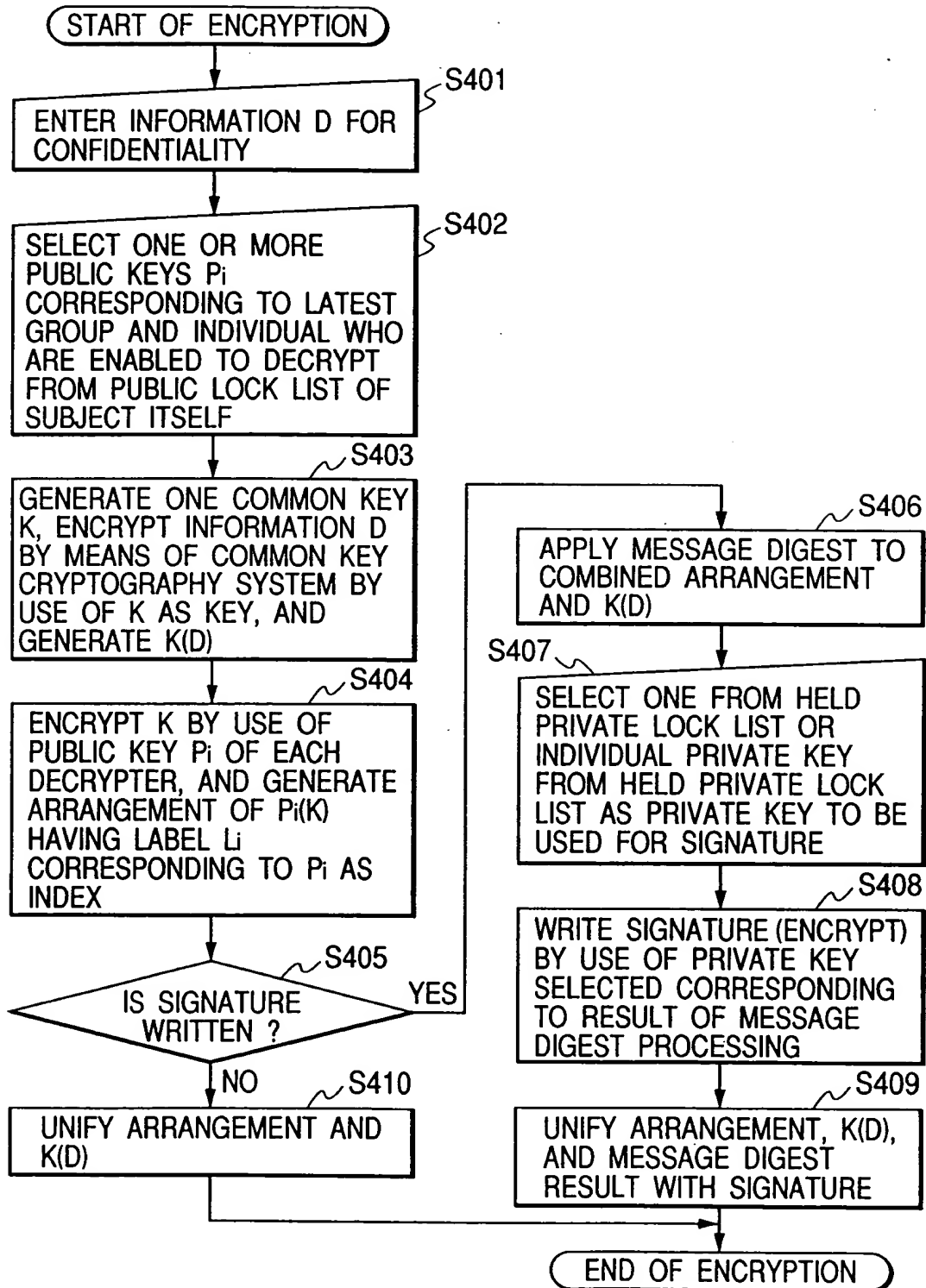


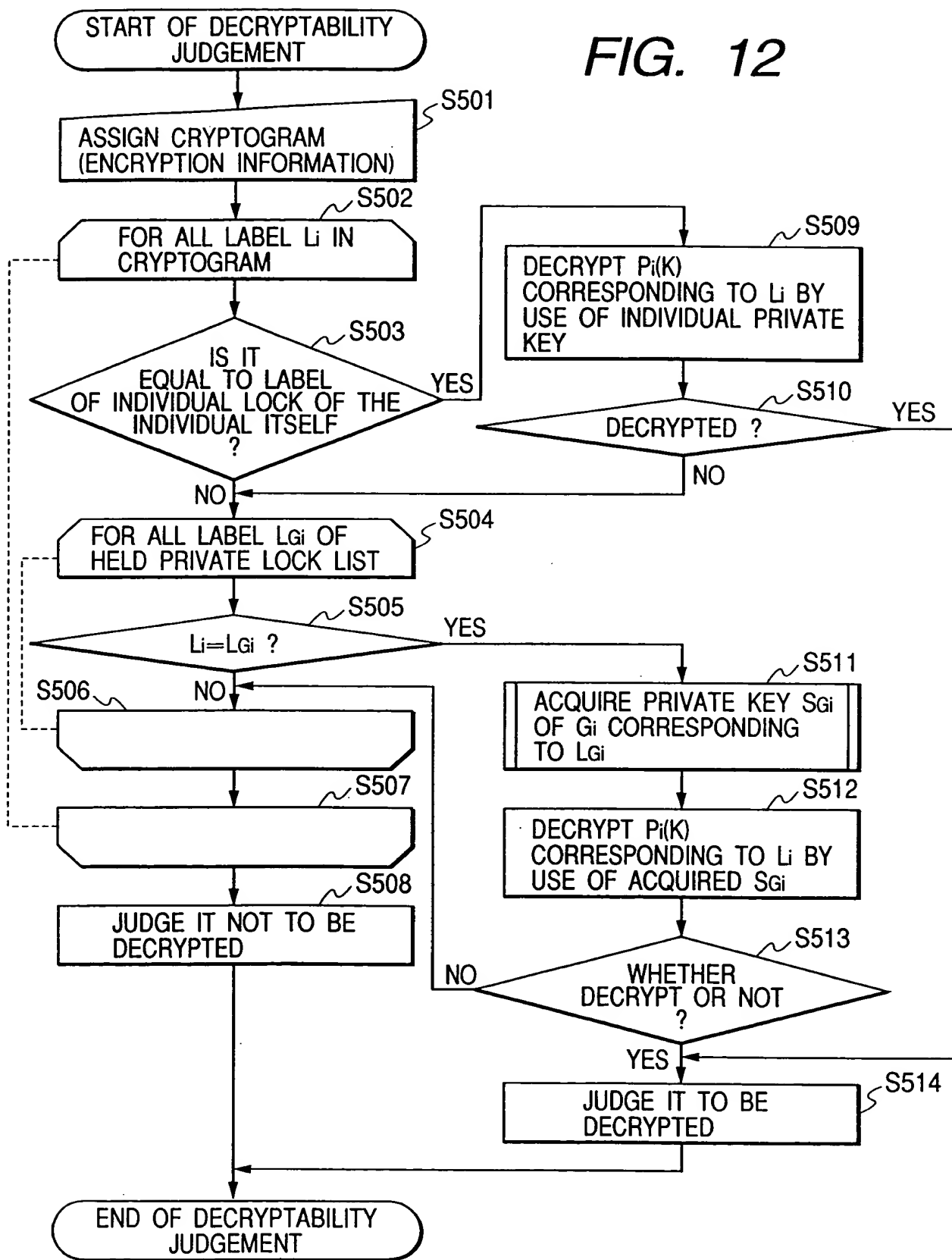
FIG. 11



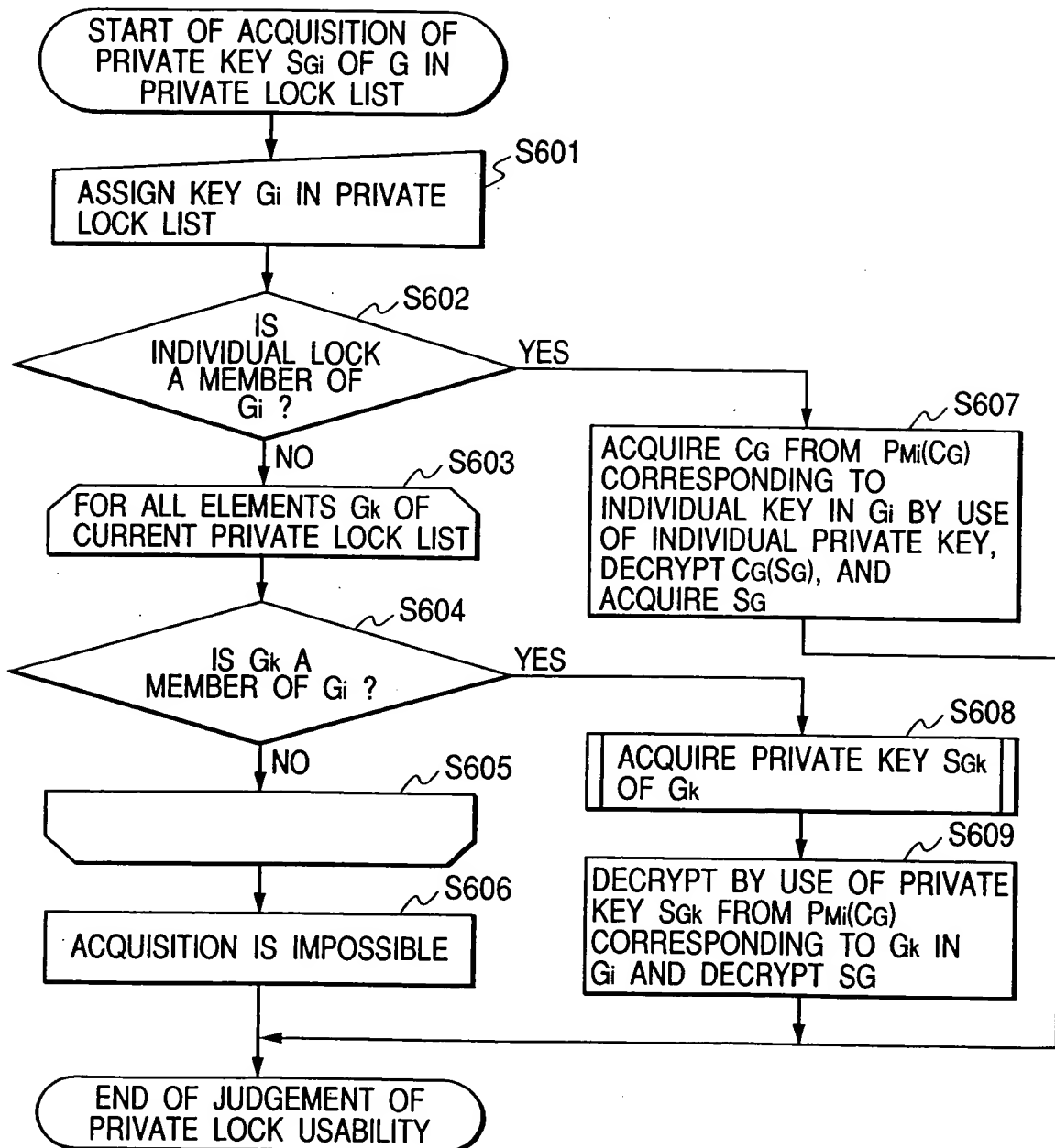


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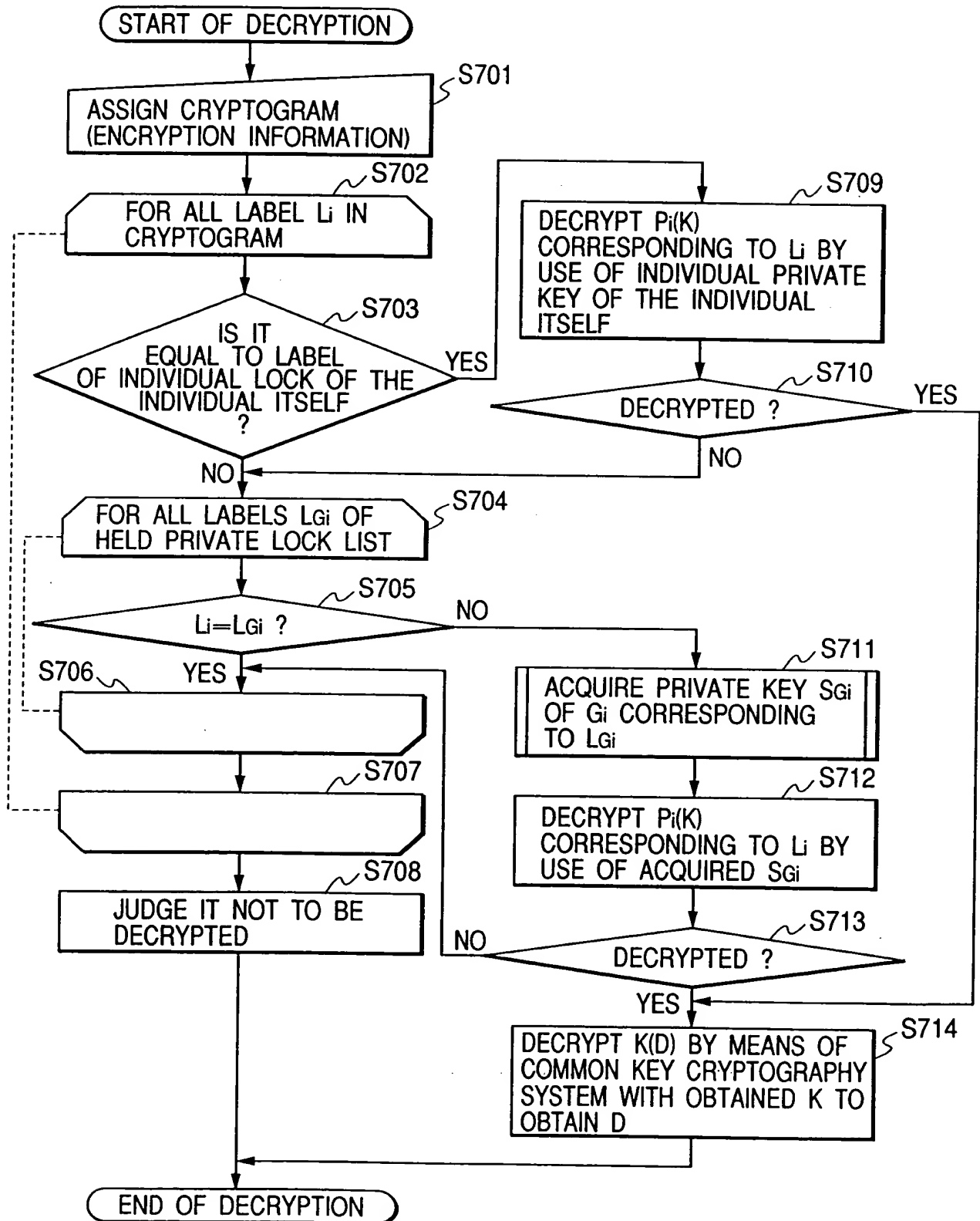
FIG. 12



**FIG. 13**



**FIG. 14**



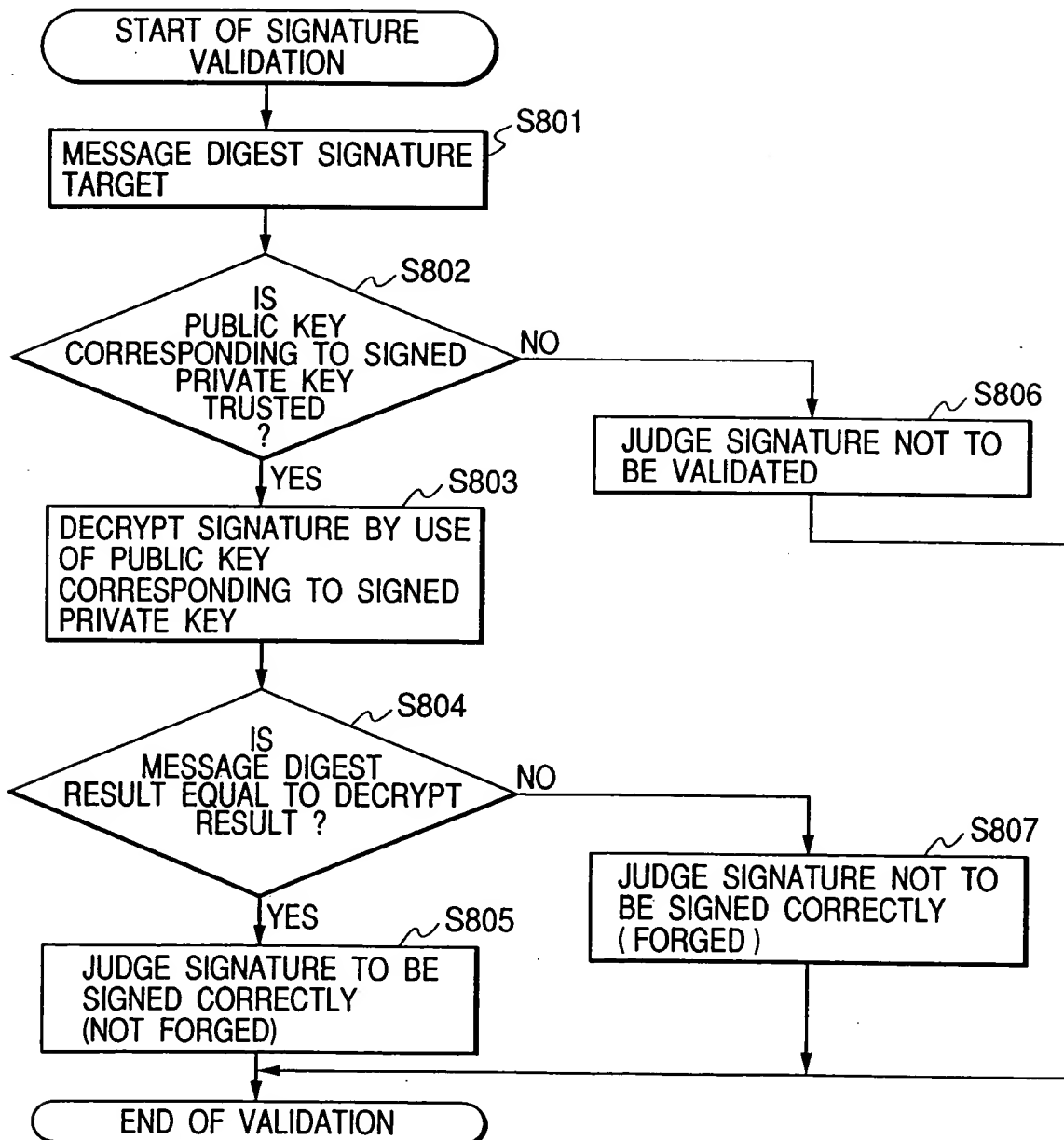
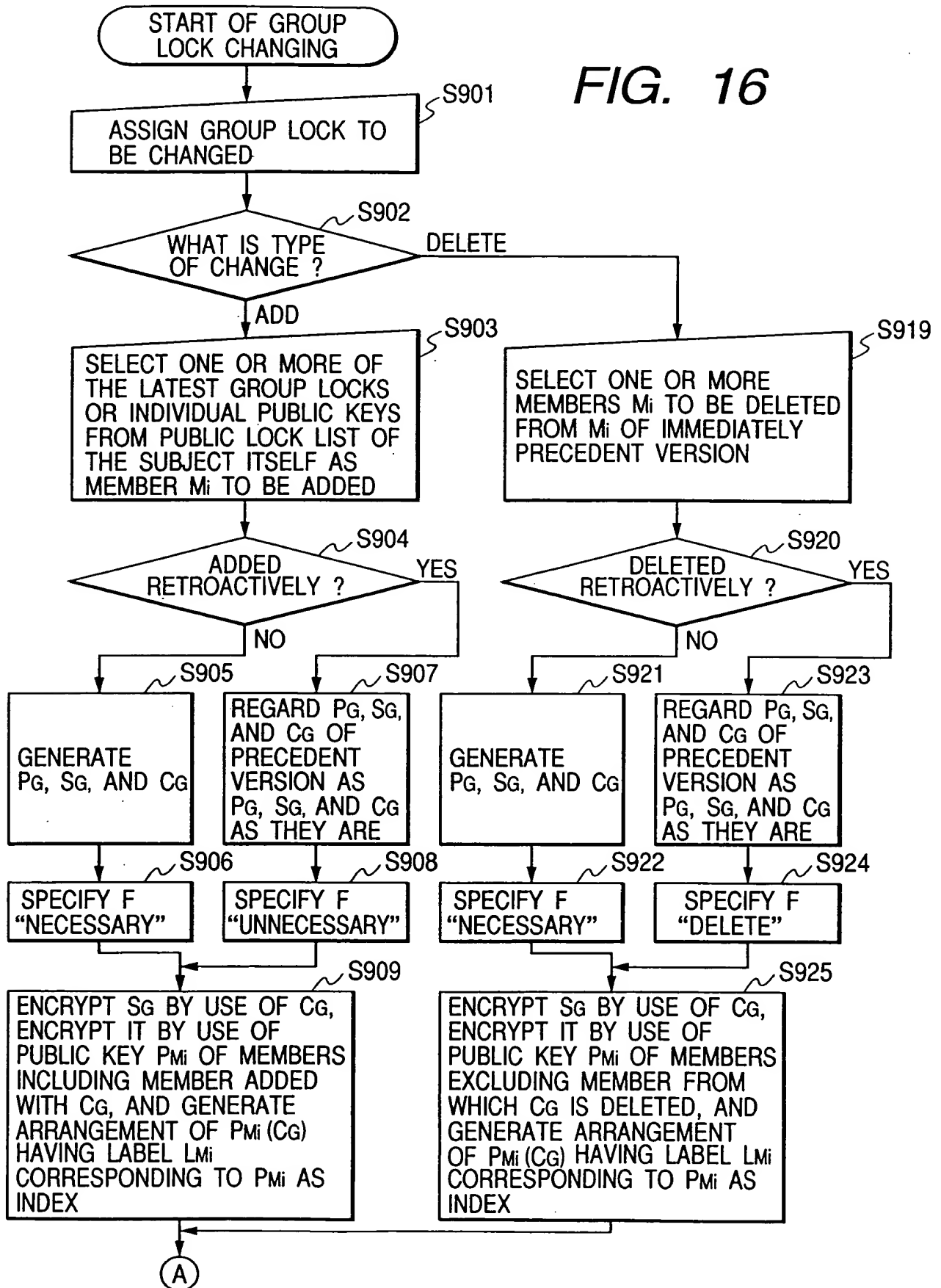
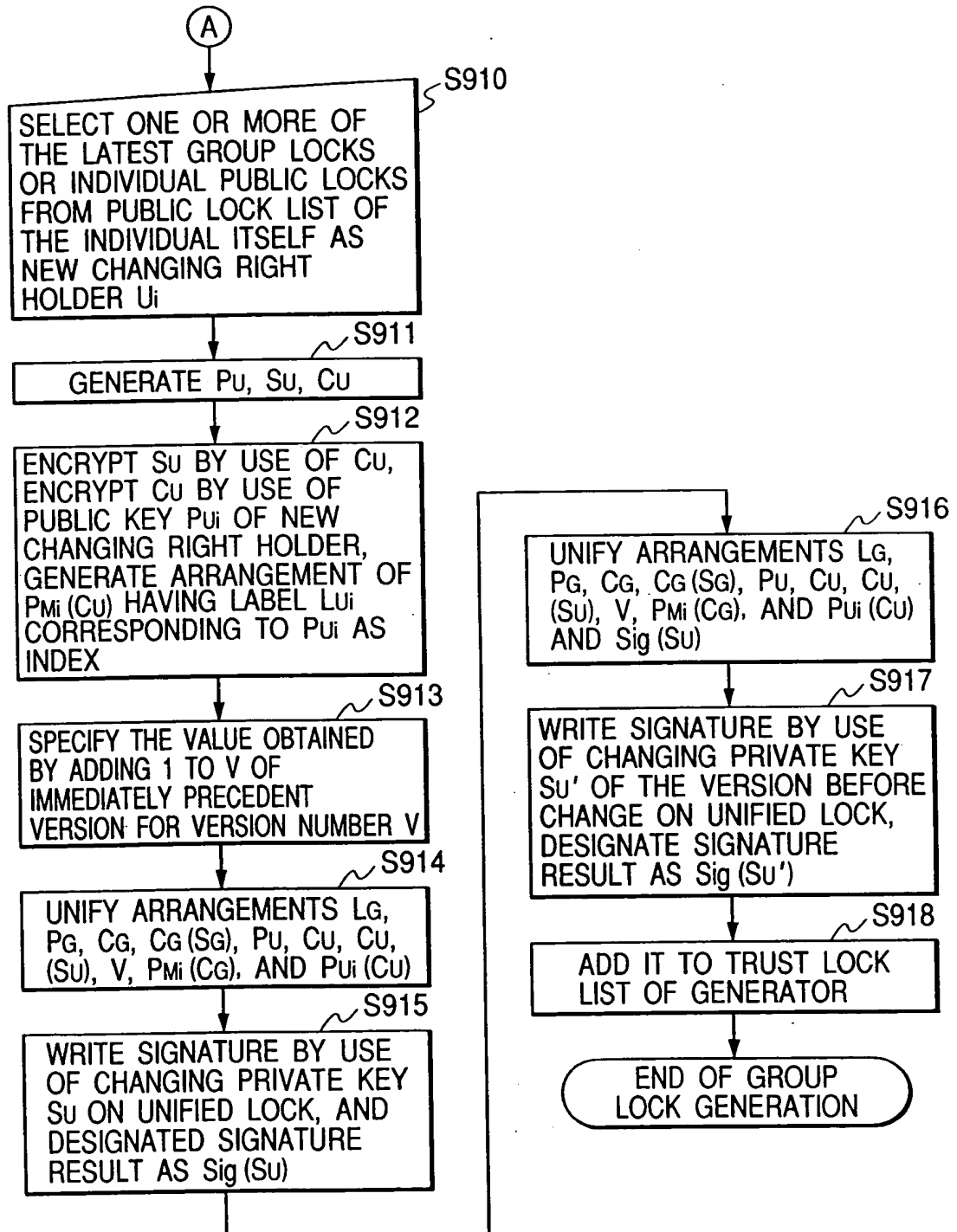
*FIG. 15*

FIG. 16



**FIG. 17**



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FIG. 18

